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APPLICATION NO	). F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/085,347	-	02/27/2002	Sunyu Su	33379US1	8546	
116	7590	07/27/2005		EXAM	EXAMINER	
	& GORD		MANTIS MERCADER, ELENI M			
1801 EAST 9TH STREET SUITE 1200				ART UNIT	PAPER NUMBER	
		44114-3108	3737			

DATE MAILED: 07/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/085,347	SU ET AL.				
		Examiner	Art Unit				
		Eleni Mantis Mercader	3737				
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	correspondence address				
THE - Exter after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on <u>04 M</u>	lav 2005.	•				
-		action is non-final.					
3) 🗌							
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-20 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	wn from consideration.  •	·				
Applicati	ion Papers						
9) 🗌	The specification is objected to by the Examine	er.					
,—	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
•	Applicant may not request that any objection to the	· · · · · · · · · · · · · · · · · · ·					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority (	under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority document  2. Certified copies of the priority document  3. Copies of the certified copies of the priority document  application from the International Bureau  See the attached detailed Office action for a list	s have been receiγed. s have been received in Applicati nty documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachmen							
	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail Da					
3) 🔲 Infori	re of Draftsperson's Patent Drawing Review (P10-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		Patent Application (PTO-152)				

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### **DETAILED ACTION**

## Response to Arguments

Examiner respectfully disagrees that the Su et al.'572 reference does not **teach** a null "with only one peak" because as the Applicant points out the reference teaches a null and two peaks, thereby including two of "only one peak". The current claim language uses the open term "comprising" thereby not excluding more than a peak sensitivity profile. No terminal disclaimers have been filed with respect to the double patenting rejections, therefore those rejections are also maintained. On these grounds the rejection is maintained and made final. However, prosecution is re-opened to address all the relevant claims.

## **Double Patenting**

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1-20 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-25 of copending Application No. 10/283,213 (as was presented in PGPUBs 20030114748). Although the conflicting claims are not identical, they are not patentably distinct from each other because they represent alternate variations and groupings.

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This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

3. Claims 1-20 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-25 of copending Application No. 10/283,292 (as was presented in PGPUBs 20030109782). Although the conflicting claims are not identical, they are not patentably distinct from each other because they represent alternate variations and groupings.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

4. Claims 1-20 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-25 of copending Application No. 09/935,705 (as was presented in PGPUBs 20020013526). Although the conflicting claims are not identical, they are not patentably distinct from each other because they represent alternate variations and groupings.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

## Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,493,572 to Su et al.'572.

Su et al.'572 disclose an inherently de-coupled sandwiched solenoidal array coil. The array contains a first coil having a null B sub 1 point and a quasi one peak sensitivity profile, and a second coil oriented with respect to the first coil in a manner that reduces coupling. Several orientations of coils are presented, including overlapping and cascading configurations. The first coil has two sections in which the sections have a different number of turns and the second section has a counter rotational orientation with respect to the first section (column 3, lines 47-65; column 6, lines 38-67; column 7, lines 1-57; column 8, lines 1-15 and 55-67; column 9, lines 4-43; figures 1-8).

Su et al.'572 does not explicitly teach a single peak. However, it would have been obvious to one skilled in the art at the time that the invention was made that the Su et al.'572 reference **teaches** a null "with only one peak" because the reference teaches a null and two peaks, thereby including two of "only one peak". The current claim language uses the open term "comprising" thereby not excluding more than a peak sensitivity profile.

Furthermore, the alternative coil configurations are well known functional equivalents.

The applied reference has a common inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

### Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eleni Mantis Mercader whose telephone number is 703 308-0899. The examiner can normally be reached on Mon. - Fri., 8:00 a.m.-6:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela Sykes can be reached on (703) 308-5181. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eleni Mantis Mercader Primary Examiner

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**EMM**